

# **Sensys Sensors Applied in the Signal Control of Small and Medium-sized Cities**

**Zijun Liang**

*Anhui ITS Engineering Research Center*

## **Abstract**

With the speeding up of urbanization in our country, the congestion of the big cities has rapidly spread to small and medium-sized cities, so the traffic signal control optimization of the small and medium-sized city is particularly important. This topic is mainly about the typical applications of Sensys sensors in the signal control of Fenghua city. Based on the traffic characteristics of small and medium-sized cities such as Fenghua, through the networked control of Sensys sensors and signal controller, from "point, line, face" three aspects to optimize the traffic flow of Fenghua. The application results show that Sensys sensors can effectively improve the efficiency of traffic signal control in Fenghua.

## **Content**

### Part 1: Background of the topic

Small and medium-sized cities currently facing the challenge of traffic congestion the same as the big cities, the traffic signal control optimization of small and medium-sized cities is urgently needed, the application of Sensys sensors in the signal control provides an important means.

### Part 2: Basic situation of Fenghua city

Including the traffic characteristics of Fenghua and the construction of Sensys sensors and other traffic facilities.

### Part 3: Traffic signal control strategy of Fenghua city

Through the Sensys sensors detecting the traffic flow of the intersection, and then transmit to the signal controller, adopt the comprehensive control strategy of the "point, line, face" to optimize the traffic flow during the night, flat peak and peak time.

### Part 4: Typical application cases of Sensys sensors in signal control of Fenghua city

Including adaptive control of single intersection, adaptive coordinating control of the artery and adaptive flow control of the area, as well as the effectiveness evaluation.

### Part 5: Expectation

Through the application of Sensys sensors in the signal control in Fenghua city, summarize the practical standards and technical specification, and then promote to other small and medium-sized cities around the country.